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CHAPTER 1: INTRODUCTION

1.1 BEFORE YOU START

Thank you for choosing our product. Before you start installing the motherboard, please make sure you follow the instructions below:

- Prepare a dry and stable working environment with sufficient lighting.
- Always disconnect the computer from power outlet before operation.
- Before you take the motherboard out from anti-static bag, ground yourself properly by touching any safely grounded appliance, or use grounded wrist strap to remove the static charge.
- Avoid touching the components on motherboard or the rear side of the board unless necessary. Hold the board on the edge, do not try to bend or flex the board.
- Do not leave any unfastened small parts inside the case after installation. Loose parts will cause short circuits which may damage the equipment.
- Keep the computer from dangerous area, such as heat source, humid air and water.

1.2 PACKAGE CHECKLIST

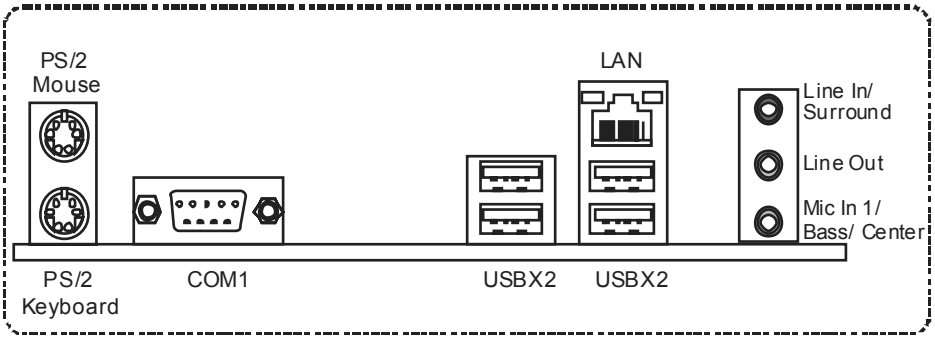
- HDD Cable X 1
- User's Manual X 1
- Fully Setup Driver CD X 1
- Rear I/O Panel for ATX Case X 1
- Serial ATA Cable X 1
- FDD Cable X 1 (optional)
- Serial ATA Power Cable X 1 (optional)
- USB 2.0 Cable X1 (optional)
- S/PDIF Cable X 1 (optional)
- Printer Port Cable X 1 (optional)

1.3 MOTHERBOARD FEATURES

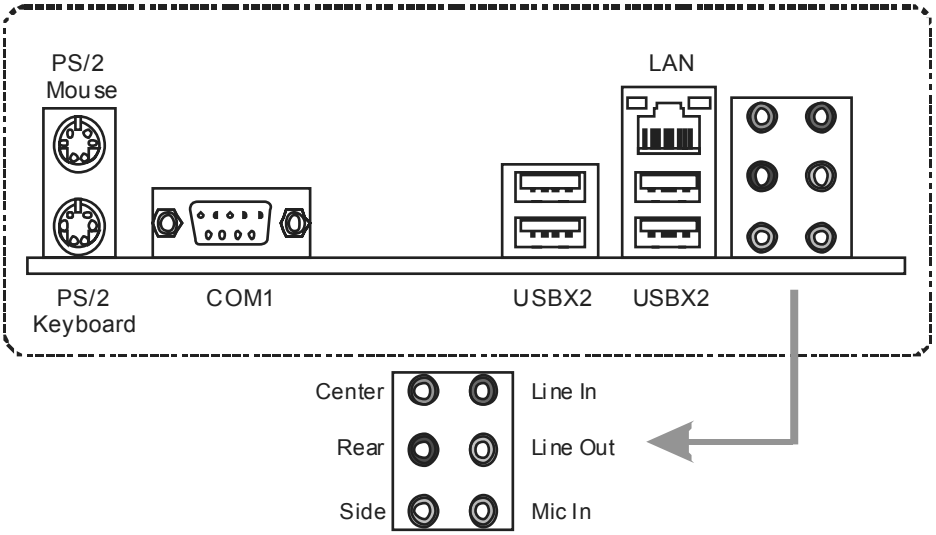
	Ver 5.x	*Ver 6.x*
CPU	Socket AM2 AMD Sempron / Athlon 64 / Athlon 64 FX / Althlon 64 X2 processors AMD 64 Architecture enables 32 and 64 bit computing Supports Hyper Transport and Cool-n-Quiet	Socket AM2 AMD Sempron / Athlon 64 / Athlon 64 FX / Althlon 64 X2 processors AMD 64 Architecture enables 32 and 64 bit computing Supports Hyper Transport and Cool-n-Quiet
FSB	Supports up to 1GHz Bandwidth	Supports up to 1GHz Bandwidth
Chipset	K8T890 VT8237A	K8T890 VT8237A
Super I/O	ITE IT8726F-S Provides the most commonly used legacy Super I/O functionality. Low Pin Count Interface Environment Control initiatives, H/W Monitor Fan Speed Controller ITE's "Smart Guardian" function	ITE IT8726F-S Provides the most commonly used legacy Super I/O functionality. Low Pin Count Interface Environment Control initiatives, H/W Monitor Fan Speed Controller ITE's "Smart Guardian" function
Main Memory	DIMM Slots x 2 Each DIMM supports 256/512MB & 1GB DDR2 Max Memory Capacity 2GB Dual Channel Mode DDR2 memory module Supports DDR2 400 / 533 / 667 / 800 Registered DIMM and ECC DIMM is not supported	DIMM Slots x 2 Each DIMM supports 256/512MB & 1GB DDR2 Max Memory Capacity 2GB Dual Channel Mode DDR2 memory module Supports DDR2 400 / 533 / 667 / 800 Registered DIMM and ECC DIMM is not supported
IDE	Integrated IDE Controller Ultra DMA 33 / 66 / 100 / 133 Bus Master Mode supports PIO Mode 0~4,	Integrated IDE Controller Ultra DMA 33 / 66 / 100 / 133 Bus Master Mode supports PIO Mode 0~4,
SATA	Integrated Serial ATA Controller Data transfer rates up to 1.5 Gb/s. SATA Version 1.0 specification compliant.	Integrated Serial ATA Controller Data transfer rates up to 1.5 Gb/s. SATA Version 1.0 specification compliant.
LAN	Realtek RTL8201CL 10 / 100 Mb/s Auto-Negotiation	Realtek RTL8201CL 10 / 100 Mb/s Auto-Negotiation

	Ver 5.x		*Ver 6.x*	
Sound	ALC888 7.1 channels audio out High Definition Audio		ALC861VD 5.1 channels audio out High Definition Audio	
Slots	PCI slot	x3	PCI slot	x3
	PCI Express x16 slot	x1	PCI Express x16 slot	x1
	PCI Express x 1 slot	x2	PCI Express x 1 slot	x2
On Board Connector	Floppy connector	x1	Floppy connector	x1
	IDE Connector	x2	IDE Connector	x2
	SATA Connector	x2	SATA Connector	x2
	Front Panel Connector	x1	Front Panel Connector	x1
	Front Audio Connector	x1	Front Audio Connector	x1
	CD-in Connector	x1	CD-in Connector	x1
	S/PDIF out connector	x1	S/PDIF out connector	x1
	CPU Fan header	x1	CPU Fan header	x1
	System Fan header	x1	System Fan header	x1
	CMOS clear header	x1	CMOS clear header	x1
	USB connector	x2	USB connector	x2
	Printer Port connector	x1	Printer Port connector	x1
	Chassis open header (optional)	x1	Chassis open header (optional)	x1
	Power Connector (24pin)	x1	Power Connector (24pin)	x1
	Power Connector (4pin)	x1	Power Connector (4pin)	x1
Back Panel I/O	PS/2 Keyboard	x1	PS/2 Keyboard	x1
	PS/2 Mouse	x1	PS/2 Mouse	x1
	Serial Port	x1	Serial Port	x1
	LAN port	x1	LAN port	x1
	USB Port	x4	USB Port	x4
	Audio Jack	x6	Audio Jack	x3
Board Size	195 mm(W) x 293 mm(L)		195 mm(W) x 293 mm(L)	
Special Features	RAID 0 / 1 support		RAID 0 / 1 support	
OS Support	Windows 2000 / XP / VISTA Biostar Reserves the right to add or remove support for any OS With or without notice.		Windows 2000 / XP / VISTA Biostar Reserves the right to add or remove support for any OS With or without notice.	

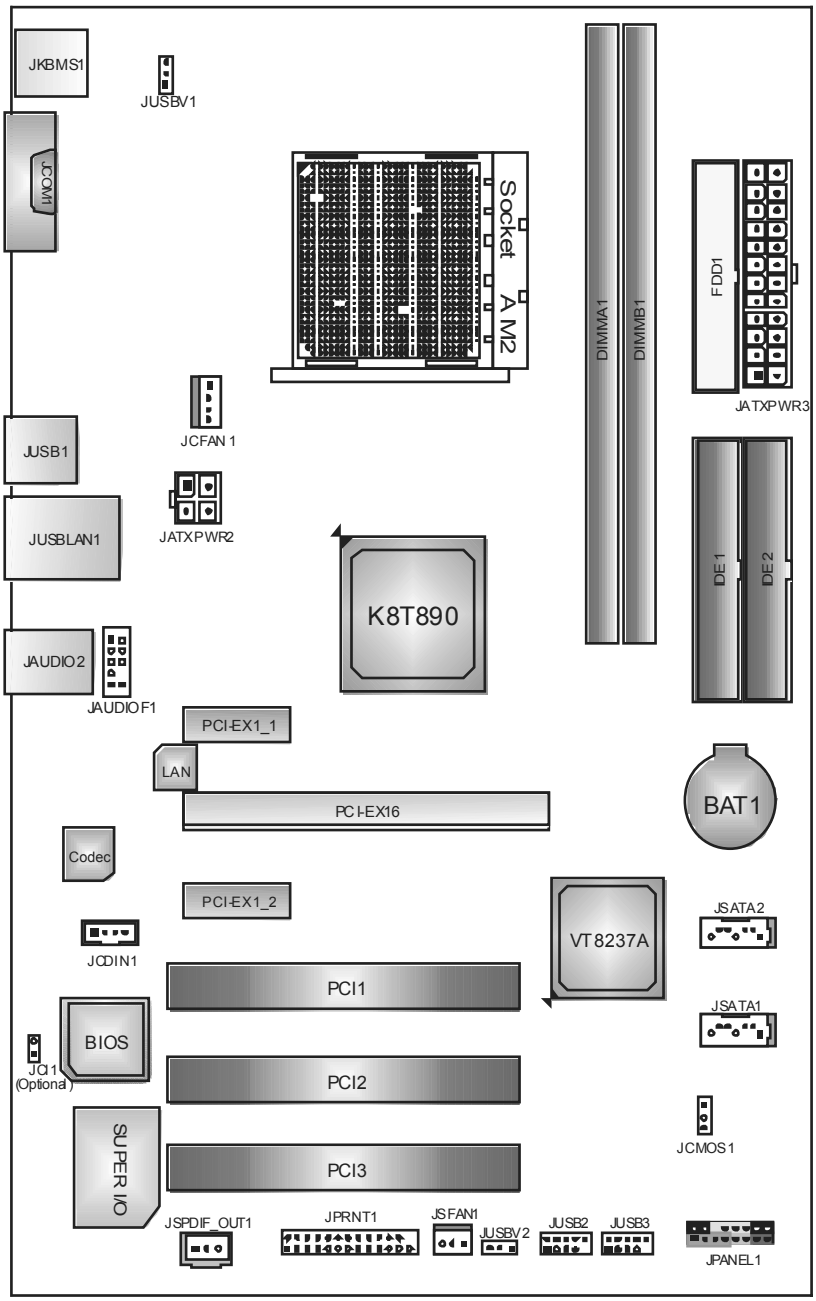
1.4 REAR PANEL CONNECTORS (FOR VER 6.X)



1.5 REAR PANEL CONNECTORS (FOR VER 5.X)

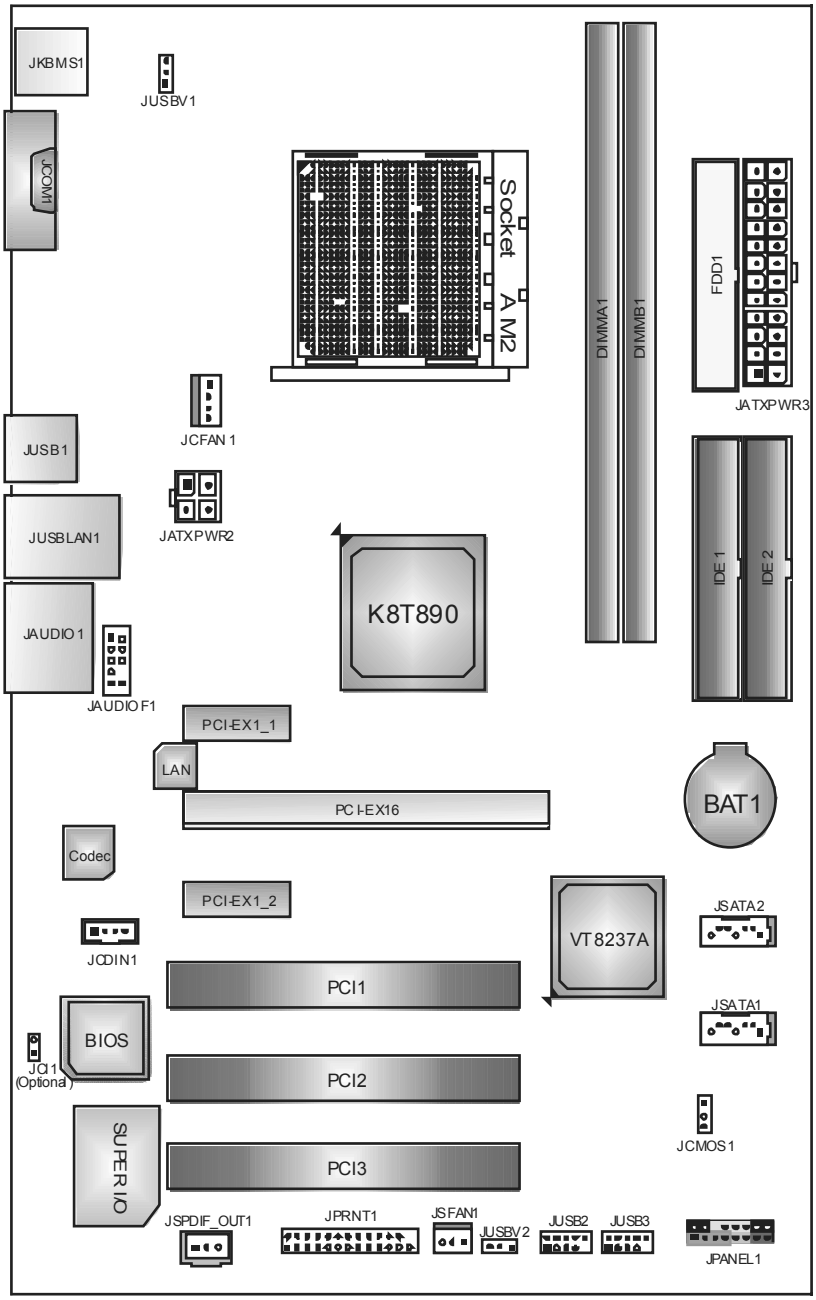


1.6 MOTHERBOARD LAYOUT (FOR VER 6.X)



Note: ■ represents the 1st pin.

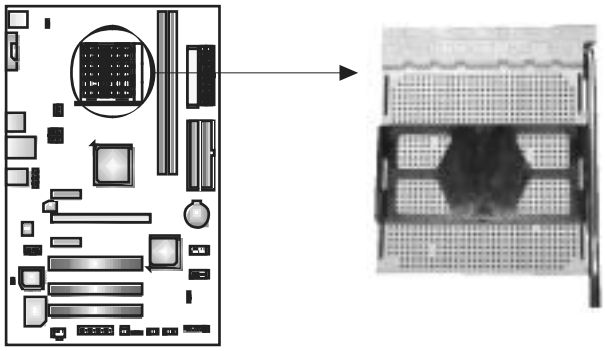
1.7 MOTHERBOARD LAYOUT (FOR VER 5.X)



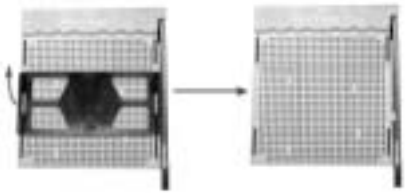
Note: ■ represents the 1st pin.

CHAPTER 2: HARDWARE INSTALLATION

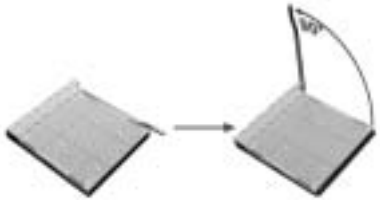
2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)



Step 1: Remove the socket protection cap.

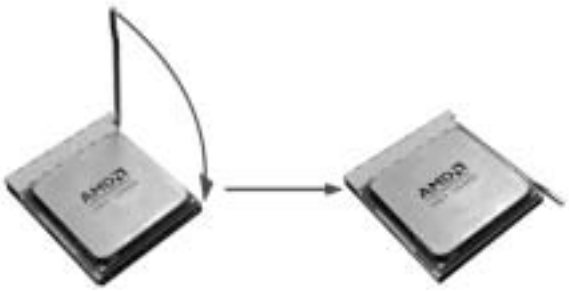


Step 2: Pull the lever toward direction A from the socket and then raise the lever up to a 90-degree angle.



Step 3: Look for the white triangle on socket, and the gold triangle on CPU should point towards this white triangle. The CPU will fit only in the correct orientation.

Step 4: Hold the CPU down firmly, and then close the lever toward direct B to complete the installation.

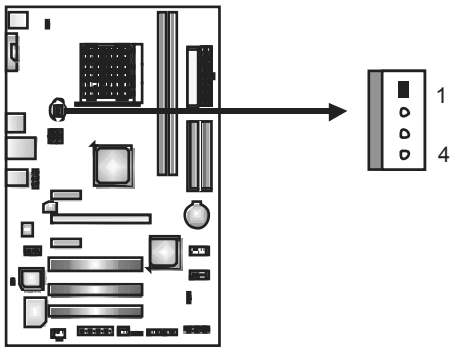


Step 5: Put the CPU Fan on the CPU and buckle it. Connect the CPU FAN power cable to the JCFAN1. This completes the installation.

2.2 FAN HEADERS

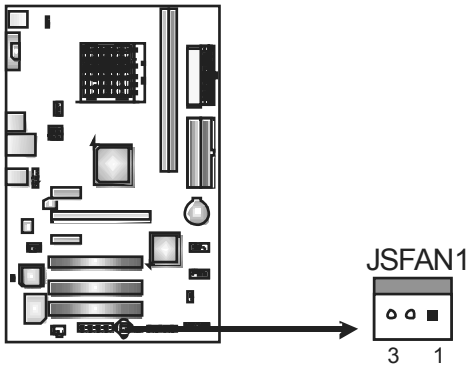
These fan headers support cooling-fans built in the computer. The fan cable and connector may be different according to the fan manufacturer. Connect the fan cable to the connector while matching the black wire to pin#1.

JCFAN1: CPU Fan Header



Pin	Assignment
1	Ground
2	+12V
3	FAN RPM rate sense
4	Smart Fan Control (By Fan)

JSFAN1: System Fan Header



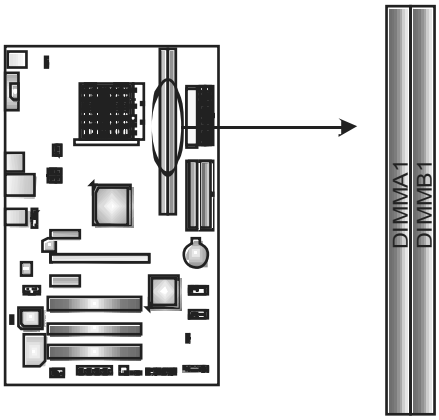
Pin	Assignment
1	Ground
2	+12V
3	FAN RPM rate sense

Note:

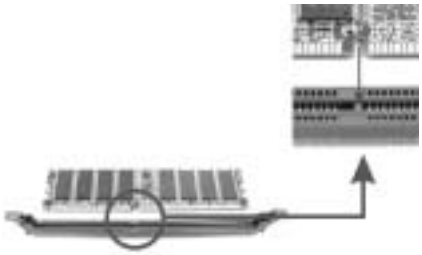
The JCFAN1 and JSFAN1 support 4-pin and 3-pin head connectors. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.3 INSTALLING SYSTEM MEMORY

A. DDR2 module



1. Unlock a DIMM slot by pressing the retaining dips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the Slot.



2. Insert the DIMM vertically and firmly into the slot until the retaining chip snap back in place and the DIMM is properly seated.

B. Memory Capacity

DIMM Socket Location	DDR2 Module	Total Memory Size
DIMMA1	256MB/512MB/1024MB *1	Max memory 2GB.
DIMMB1	256MB/512MB/1024MB *1	

C. Dual Channel Memory installation

To trigger the Dual Channel function of the motherboard, the memory module must meet the following requirements:

Install memory module of the same density in pairs, shown in the following table.

Dual Channel Status	DIMMA1	DIMMB1
Disabled	O	X
Disabled	X	O
Enabled	O	O

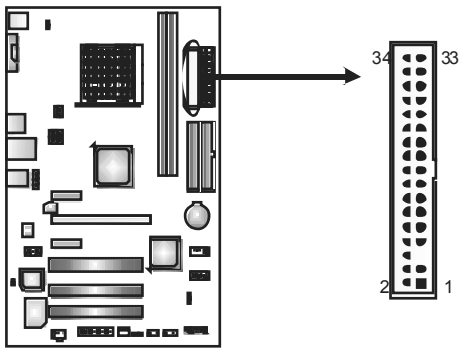
(O means memory installed, X means memory not installed.)

The DRAM bus width of the memory module must be the same (x8 or x16)

2.4 CONNECTORS AND SLOTS

FDD1: Floppy Disk Connector

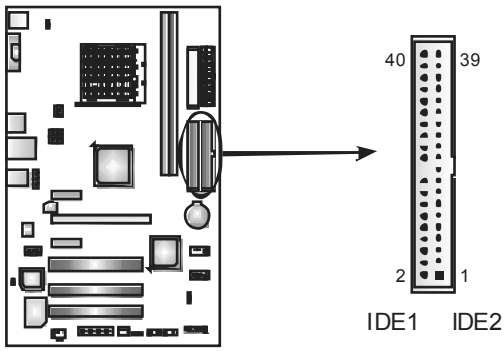
The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.



IDE1/IDE2: Hard Disk Connectors

The motherboard has a 32-bit Enhanced PCI IDE Controller that provides PIO Mode 0~4, Bus Master, and Ultra DMA 33/66/100/133 functionality.

The IDE connectors can connect a master and a slave drive, so you can connect up to four hard disk drives. The first hard drive should always be connected to IDE1.

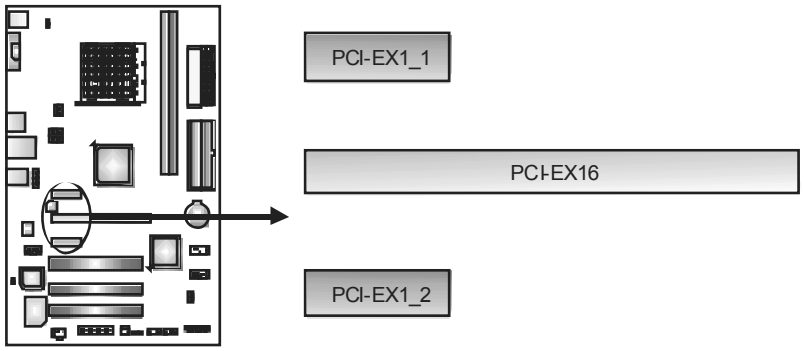


PCI-EX16: PCI-Express x16 Slot

- PCI-Express 1.0a compliant.
- Maximum theoretical realized bandwidth of 4GB/s simultaneously per direction, for an aggregate of 8GB/s totally.

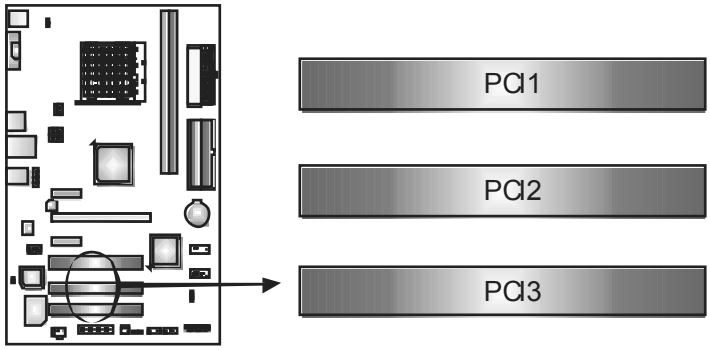
PCI-EX1_1/PCI-EX1_2: PCI-Express x1 slots

- PCI-Express 1.0a compliant.
- Data transfer bandwidth up to 250MB/s per direction; 500MB/s in total.
- PCI-Express supports a raw bit-rate of 2.5Gb/s on the data pins.
- 2X bandwidth over the traditional PCI architecture.



PCI1~PCI3: Peripheral Component Interconnect Slots

This motherboard is equipped with 3 standard PCI slots. PCI stands for Peripheral Component Interconnect, and it is a bus standard for expansion cards. This PCI slot is designated as 32 bits.



CHAPTER 3: HEADERS & JUMPERS SETUP

3.1 HOW TO SETUP JUMPERS

The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is "close", if not, that means the jumper is "open".

Pin opened

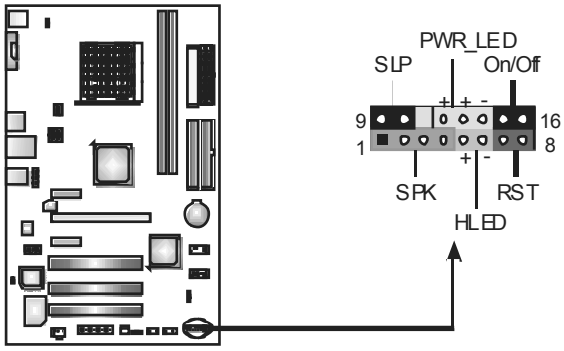
Pin closed

Pin1-2 closed

3.2 DETAIL SETTINGS

JPANEL1: Front Panel Header

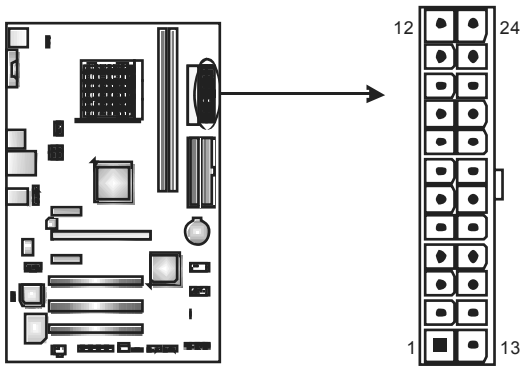
This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, Sleep button and speaker connection. It allows user to connect the PC case's front panel switch functions.



Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	9	Sleep control	Sleep button
2	N/A		10	Ground	
3	N/A		11	N/A	N/A
4	Speaker		12	Power LED (+)	Power LED
5	HDD LED (+)	Hard drive LED	13	Power LED (+)	
6	HDD LED (-)		14	Power LED (-)	
7	Ground	Reset button	15	Power button	Power-on button
8	Reset control		16	Ground	

JATXPWR1: ATX Power Source Connector

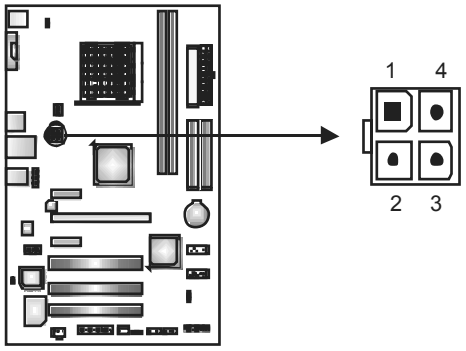
This connector allows user to connect 24-pin power connector on the ATX power supply.



Pin	Assignment	Pin	Assignment
13	+3.3V	1	+3.3V
14	-12V	2	+3.3V
15	Ground	3	Ground
16	PS_ON	4	+5V
17	Ground	5	Ground
18	Ground	6	+5V
19	Ground	7	Ground
20	NC	8	PW_OK
21	+5V	9	Standby Voltage+5V
22	+5V	10	+12V
23	+5V	11	+12V
24	Ground	12	+3.3V

JATXPWR2: ATX Power Source Connector

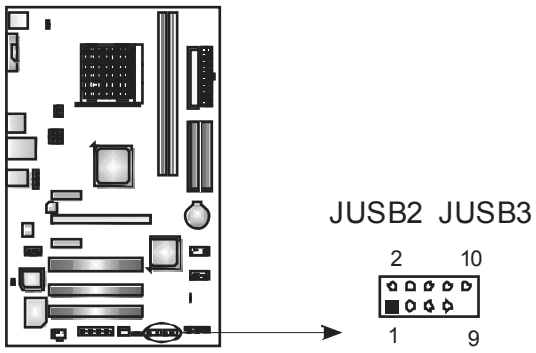
By connecting this connector, it will provide +12V to CPU power circuit.



Pin	Assignment
1	+12V
2	+12V
3	Ground
4	Ground

JUSB2/JUSB3: Headers for USB 2.0 Ports at Front Panel

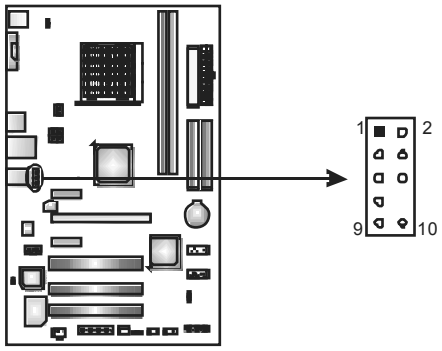
This motherboard provides 2 USB 2.0 headers, which allows user to connect additional USB cable on the PC front panel, and also can be connected with internal USB devices, like USB card reader.



Pin	Assignment
1	+5V (fused)
2	+5V (fused)
3	USB-
4	USB-
5	USB+
6	USB+
7	Ground
8	Ground
9	Key
10	NC

JAUDIOF1: Front Panel Audio Header

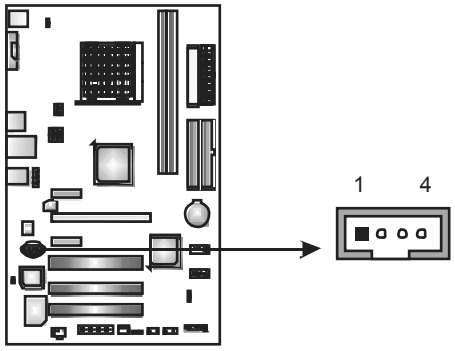
This header allows user to connect the front audio output cable with the PC front panel. It will disable the output on back panel audio connectors.



Pin	Assignment
1	Mic in/center
2	Ground
3	Mic power/Bass
4	Audio power
5	Right line out/ Speaker out Right
6	Right line out/ Speaker out Right
7	Reserved
8	Key
9	Left line out/ Speaker out Left
10	Left line out/ Speaker out Left

JCDIN1: CD-ROM Audio-in Connector

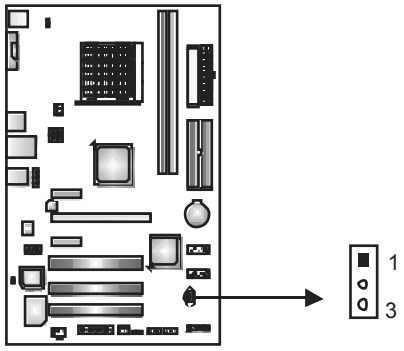
This connector allows user to connect the audio source from the variaty devices, like CD-ROM, DVD-ROM, PCI sound card, PCI TV turner card etc..



Pin	Assignment
1	Left Channel Input
2	Ground
3	Ground
4	Right Channel Input

JCMOS1: Clear CMOS Header

By placing the jumper on pin2-3, it allows user to restore the BIOS safe setting and the CMOS data, please carefully follow the procedures to avoid damaging the motherboard.



Pin 1-2 Close:
Normal Operation (Default).

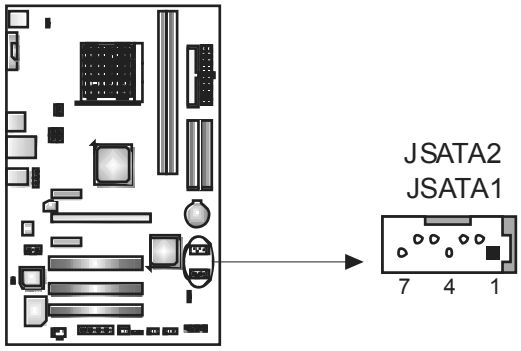
Pin 2-3 Close:
Clear CMOS data.

※ Clear CMOS Procedures:

1. Remove AC power line.
2. Set the jumper to “Pin 2-3 close”.
3. Wait for five seconds.
4. Set the jumper to “Pin 1-2 close”.
5. Power on the AC.
6. Reset your desired password or clear the CMOS data.

JSATA1~JSATA2: Serial ATA Connectors

The motherboard has a PCI to SATA Controller with 2 channels SATA interface, it satisfies the SATA 1.0 spec and with transfer rate of 1.5Gb/s.



Pin	Assignment
1	Ground
2	TX+
3	TX-
4	Ground
5	RX-
6	RX+
7	Ground

JUSBV1/JUSBV2: Power Source Headers for USB Ports

Pin 1-2 Close:

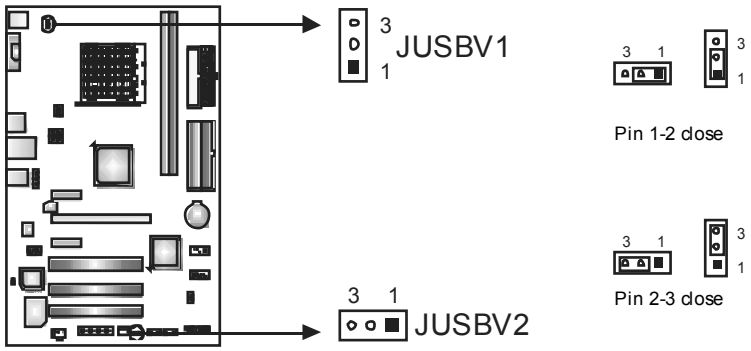
JUSBV1: +5V for USB ports at JUSBLAN1.

JUSBV2: +5V for USB ports at front panel (JUSB1/JUSB2).

Pin 2-3 Close:

JUSBV1: USB ports at JUSBLAN1 are powered by +5V standby voltage.

JUSBV2: USB ports at front panel (JUSB1/JUSB2) are powered by +5V standby voltage.

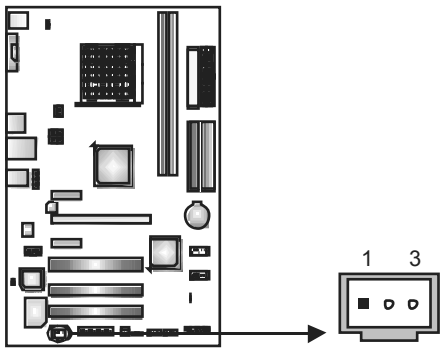


Note:

In order to support this function "Power-On system via USB device," "JUSBV1/ JUSBV2" jumper cap should be placed on Pin 2-3 individually.

JSPDIF_OUT1: Digital Audio out Connectors

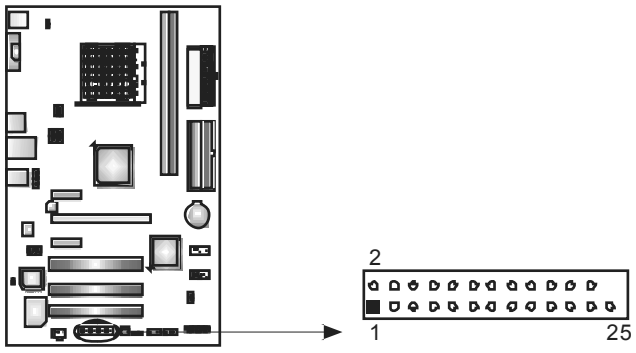
This connector allows user to connect the PCI bracket SPDIF output header.



Pin	Assignment
1	+5V
2	SPDIF_OUT1
3	Ground

JPRNT1: Printer Port Connector

This header allows you to connector printer on the PC.



Pin	Assignment	Pin	Assignment
1	-Strobe	14	Ground
2	-ALF	15	Data 6
3	Data 0	16	Ground
4	-Error	17	Data 7
5	Data 1	18	Ground
6	-Init	19	-ACK
7	Data 2	20	Ground
8	-Scltin	21	Busy
9	Data 3	22	Ground
10	Ground	23	PE
11	Data 4	24	Ground
12	Ground	25	SCLT
13	Data 5	26	Key

CHAPTER 4: RAID FUNCTIONS

4.1 OPERATION SYSTEM

Supports Windows XP Home/Professional Edition, and Windows 2000 Professional.

4.2 RAID ARRAYS

RAID supports the following types of RAID arrays:

RAID 0: RAID 0 defines a disk striping scheme that improves disk read and write times for many applications.

RAID 1: RAID 1 defines techniques for mirroring data.

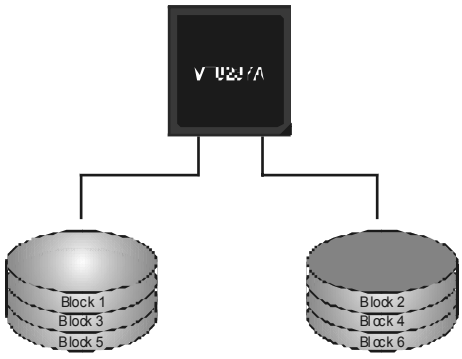
4.3 HOW RAID WORKS

RAID 0:

The controller "stripes" data across multiple drives in a RAID 0 array system. It breaks up a large file into smaller blocks and performs disk reads and writes across multiple drives in parallel. The size of each block is determined by the stripe size parameter, which you set during the creation of the RAID set based on the system environment. This technique reduces overall disk access time and offers high bandwidth.

Features and Benefits

- ***Drives:*** Minimum 1, and maximum is up to 6 or 8. Depending on the platform.
- ***Uses:*** Intended for non-critical data requiring high data throughput, or any environment that does not require fault tolerance.
- ***Benefits:*** provides increased data throughput, especially for large files. No capacity loss penalty for parity.
- ***Drawbacks:*** Does not deliver any fault tolerance. If any drive in the array fails, all data is lost.
- ***Fault Tolerance:*** No.



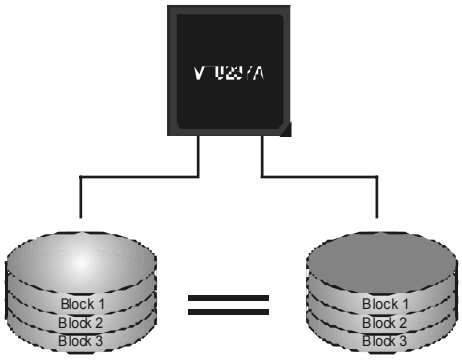
RAID 1:

Every read and write is actually carried out in parallel across 2 disk drives in a RAID 1 array system. The mirrored (backup) copy of the data can reside on the same disk or on a second redundant drive in the array. RAID 1 provides a hot-standby copy of data if the active volume or drive is corrupted or becomes unavailable because of a hardware failure.

RAID techniques can be applied for high-availability solutions, or as a form of automatic backup that eliminates tedious manual backups to more expensive and less reliable media.

Features and Benefits

- ***Drives:*** Minimum 2, and maximum is 2.
- ***Uses:*** RAID 1 is ideal for small databases or any other application that requires fault tolerance and minimal capacity.
- ***Benefits:*** Provides 100% data redundancy. Should one drive fail, the controller switches to the other drive.
- ***Drawbacks:*** Requires 2 drives for the storage space of one drive. Performance is impaired during drive rebuilds.
- ***Fault Tolerance:*** Yes.

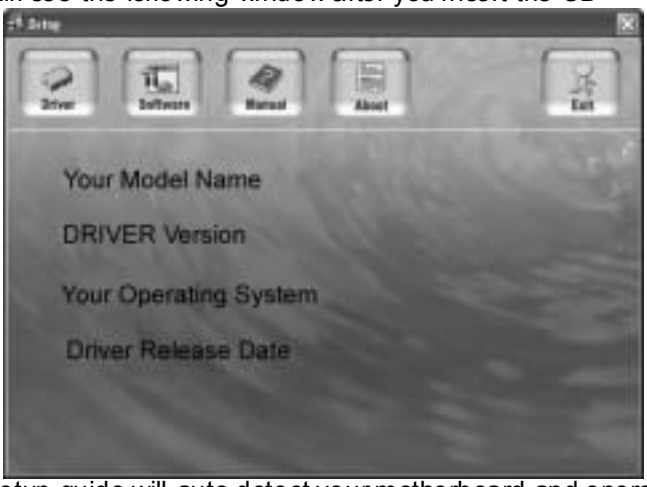


CHAPTER 5: USEFUL HELP

5.1 DRIVER INSTALLATION NOTE

After you installed your operating system, please insert the Fully Setup Driver CD into your optical drive and install the driver for better system performance.

You will see the following window after you insert the CD



The setup guide will auto detect your motherboard and operating system.

> ***Note:***
> If this window didn't show up after you insert the Driver CD, please use file browser to locate and execute the file ***SETUP.EXE*** under your optical drive.

A. Driver Installation

To install the driver, please click on the Driver icon. The setup guide will list the compatible driver for your motherboard and operating system. Click on each device driver to launch the installation program.

B. Software Installation

To install the software, please click on the Software icon. The setup guide will list the software available for your system, click on each software title to launch the installation program.

C. Manual

Aside from the paperback manual, we also provide manual in the Driver CD. Click on the Manual icon to browse for available manual.

> ***Note:***
> You will need Acrobat Reader to open the manual file. Please download the latest version of Acrobat Reader software from
> ***http://www.adobe.com/products/acrobat/readstep2.html***

5.2 AWARD BIOS BEEP CODE

Beep Sound	Meaning
One long beep followed by two short beeps	Video card not found or video card memory bad
High-low siren sound	CPU overheated System will shut down automatically
One Short beep when system boot-up	No error found during POST
Long beeps every other second	No DRAM detected or install

5.3 EXTRA INFORMATION

A. BIOS Update

After you fail to update BIOS or BIOS is invaded by virus, the Boot-Block function will help to restore BIOS. If the following message is shown after boot-up the system, it means the BIOS contents are corrupted.

In this Case, please follow the procedure below to restore the BIOS:

1. Make a bootable floppy disk.
2. Download the Flash Utility "AWDFLASH.exe" from the Biostar website: www.biostar.com.tw
3. Confirm motherboard model and download the respectively BIOS from Biostar website.
4. Copy "AWDFLASH.exe" and respectively BIOS into floppy disk.
5. Insert the bootable disk into floppy drive and press Enter.
6. System will boot-up to DOS prompt.
7. Type *"Awdflash xxxx.bf/sn/py/r"* in DOS prompt.
   (*xxxx* means BIOS name.)
8. System will update BIOS automatically and restart.
9. The BIOS has been recovered and will work properly.

B. CPU Overheated

If the system shutdown automatically after power on system for seconds, that means the CPU protection function has been activated.

When the CPU is over heated, the motherboard will shutdown automatically to avoid a damage of the CPU, and the system may not power on again.

In this case, please double check:

1. The CPU cooler surface is placed evenly with the CPU surface.
2. CPU fan is rotated normally.
3. CPU fan speed is fulfilling with the CPU speed.

After confirmed, please follow steps below to relief the CPU protection function.

1. Remove the power cord from power supply for seconds.
2. Wait for seconds.
3. Plug in the power cord and boot up the system.

Or you can:

1. Clear the CMOS data.
   (See “Close CMOS Header: JCMOS1” section)
2. Wait for seconds.
3. Power on the system again.

5.4 TROUBLESHOOTING

Probable	Solution
1. No power to the system at all Power light don't illuminate, fan inside power supply does not turn on. 2. Indicator light on key board does not turn on.	1. Make sure power cable is securely plugged in. 2. Replace cable. 3. Contact technical support.
System inoperative. Keyboard lights are on, power indicator lights are lit, and hard drive is spinning.	Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place.
System does not boot from hard disk drive, can be booted from optical drive.	1. Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup. 2. Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.
System only boots from optical drive. Hard disk can be read and applications can be used but booting from hard disk is impossible.	1. Back up data and applications files. 2. Reformat the hard drive. Re-install applications and data using backup disks.
Screen message says "Invalid Configuration" or "CMOS Failure."	Review system's equipment. Make sure correct information is in setup.
Cannot boot system after installing second hard drive.	1. Set master/slave jumpers correctly. 2. Run SETUP program and select correct drive types. Call the drive manufacturers for compatibility with other drives.

CHAPTER 6: WARPSPEEDER™

6.1 INTRODUCTION

[WarpSpeeder™], a new powerful control utility, features three user-friendly functions including Overclock Manager, Overvoltage Manager, and Hardware Monitor.

With the Overclock Manager, users can easily adjust the frequency they prefer or they can get the best CPU performance with just one click. The Overvoltage Manager, on the other hand, helps to power up CPU core voltage and Memory voltage. The cool Hardware Monitor smartly indicates the temperatures, voltage and CPU fan speed as well as the chipset information. Also, in the About panel, you can get detail descriptions about BIOS model and chipsets. In addition, the frequency status of CPU, memory, AGP and PCI along with the CPU speed are synchronically shown on our main panel.

Moreover, to protect users' computer systems if the setting is not appropriate when testing and results in system fail or hang, [WarpSpeeder™] technology assures the system stability by automatically rebooting the computer and then restart to a speed that is either the original system speed or a suitable one.

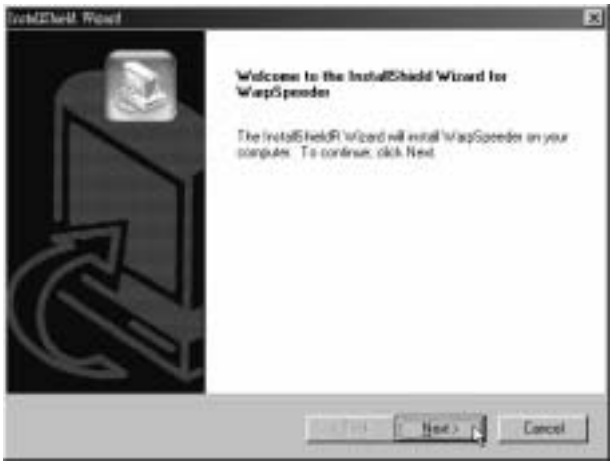
6.2 SYSTEM REQUIREMENT

OS Support: Windows 98 SE, Windows Me, Windows 2000, Windows XP

DirectX: DirectX 8.1 or above. (The Windows XP operating system includes DirectX 8.1. If you use Windows XP, you do not need to install DirectX 8.1.)

6.3 INSTALLATION

1. Execute the setup execution file, and then the following dialog will pop up. Please dick "Next" button and follow the default procedure to install.



2. When you see the following dialog in setup procedure, it means setup is completed. If the "Launch the WarpSpeeder Tray Utility" checkbox is checked, the Tray Icon utility and [WarpSpeeder™] utility will be automatically and immediately launched after you dick "Finish" button.

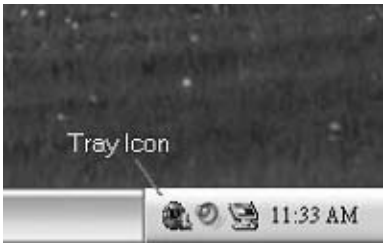
Usage:

The following figures are just only for reference, the screen printed in this user manual will change according to your motherboard on hand.

6.4 WARPSPEEDER™

1. Tray Icon:

Whenever the Tray Icon utility is launched, it will display a little tray icon on the right side of Windows Taskbar.



This utility is responsible for conveniently invoking [WarpSpeeder™] Utility. You can use the mouse by clicking the left button in order to invoke [WarpSpeeder™] directly from the little tray icon or you can right-click the little tray icon to pop up a popup menu as following figure. The "Launch Utility" item in the popup menu has the same function as mouse left-click on tray icon and "Exit" item will close Tray Icon utility if selected.

2. Main Panel

If you click the tray icon, [WarpSpeeder™] utility will be invoked. Please refer to the following figure; the utility's first window you will see is Main Panel.

Main Panel contains features as follows:

a. Display the CPU Speed, CPU external clock, Memory clock, AGP clock, and PCI clock information.

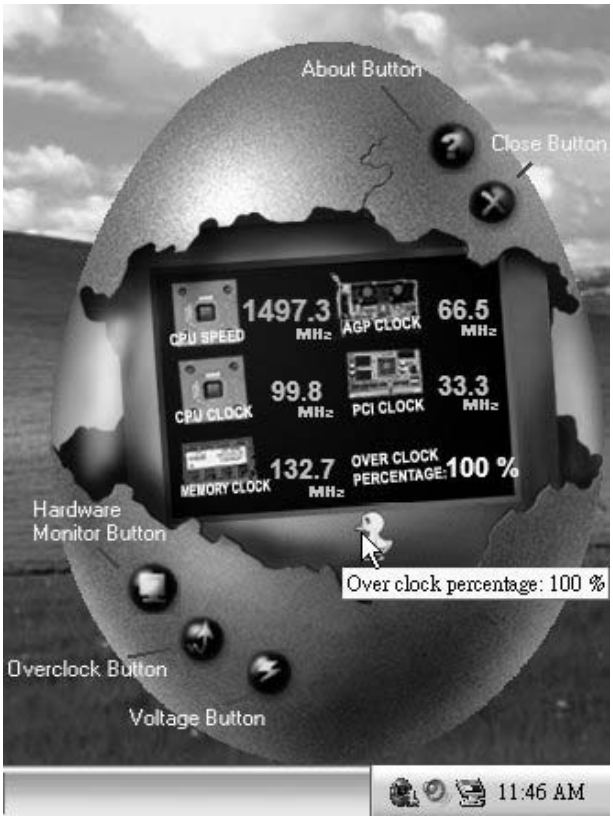
b. Contains About, Voltage, Overclock, and Hardware Monitor Buttons for invoking respective panels.

c. With a user-friendly Status Animation, it can represent 3 overclock percentage stages:

Man walking→overclock percentage from 100% ~ 110 %

Panther running→overclock percentage from 110% ~ 120%

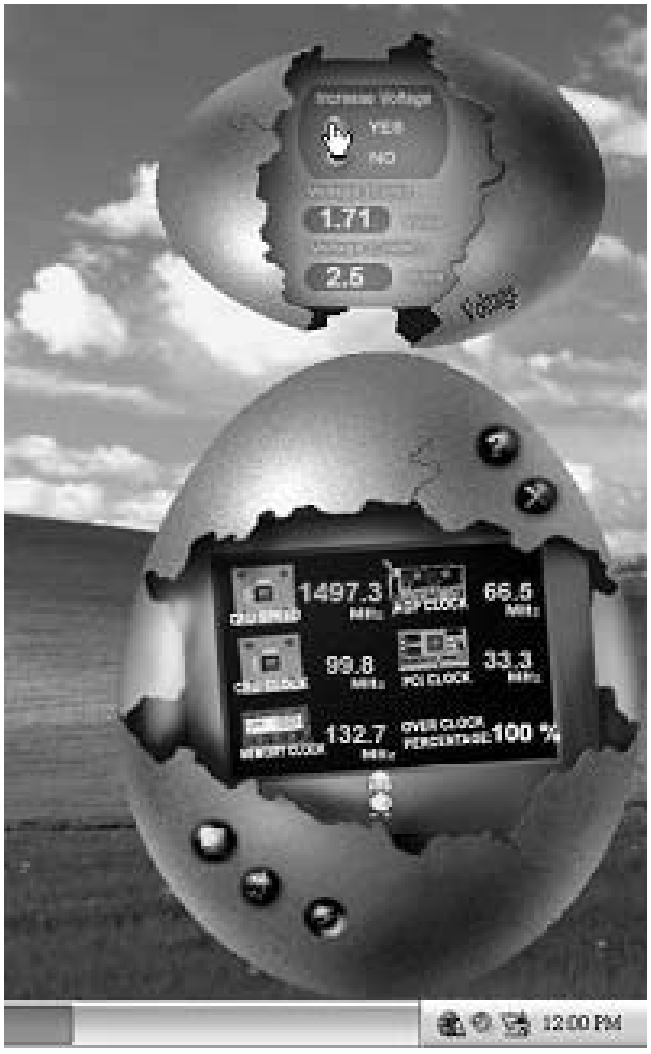
Car racing→overclock percentage from 120% ~ above



3. Voltage Panel

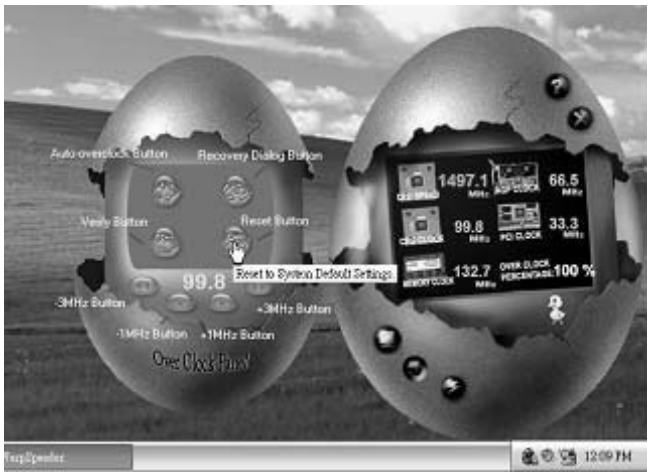
Click the Voltage button in Main Panel, the button will be highlighted and the Voltage Panel will slide out to up as the following figure.

In this panel, you can decide to increase CPU core voltage and Memory voltage or not. The default setting is “No”. If you want to get the best performance of overclocking, we recommend you click the option “Yes”.



4. Overclock Panel

Click the Overclock button in Main Panel, the button will be highlighted and the Overclock Panel will slide out to left as the following figure.



Overclock Panel contains the these features:

a. "–3MHz button", "-1MHz button", "+1MHz button", and "+3MHz button": provide user the ability to do real-time overdock adjustment.

Warning:
Manually overclock is potentially dangerous, especially when the overclocking percentage is over 110 %. We strongly recommend you verify every speed you overclock by click the Verify button. Or, you can just click Auto overclock button and let [WarpSpeeder™] automatically gets the best result for you.

b. "Recovery Dialog button": Pop up the following dialog. Let user select a restoring way if system need to do a fail-safe reboot.

Recovery Options
Please select a recovery option that will decide what kind of restoring you want to do after system fail-safe reboot.
Options Group
Restore to Hardware Default CPU Clock Value
Restore to the Previous Verified CPU Clock Value
OK

c. "Auto-overclock button": User can click this button and [WarpSpeeder™] will set the best and stable performance and frequency automatically. [WarpSpeeder™] utility will execute a series of testing until system fail. Then system will do fail-safe reboot by using Watchdog function. After reboot, the [WarpSpeeder™] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.

d. "Verify button": User can click this button and [WarpSpeeder™] will proceed a testing for current frequency. If the testing is ok, then the current frequency will be saved into system registry. If the testing fail, system will do a fail-safe rebooting. After reboot, the [WarpSpeeder™] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.

Note:

Because the testing programs, invoked in Auto-overclock and Verify, include DirectDraw, Direct3D and DirectShow tests, the DirectX 8.1 or newer runtime library is required. And please make sure your display card's color depth is High color (16 bit) or True color(24/32 bit) that is required for Direct3D rendering.

5. Hardware Monitor Panel

Click the Hardware Monitor button in Main Panel, the button will be highlighted and the Hardware Monitor panel will slide out to left as the following figure.

In this panel, you can get the real-time status information of your system. The information will be refreshed every 1 second.

6. About Panel

Click the “about” button in Main Panel, the button will be highlighted and the About Panel will slide out to up as the following figure.

In this panel, you can get model name and detail information in hints of all the chipset that are related to overclocking. You can also get the mainboard’s BIOS model and the Version number of [WarpSpeeder™] utility.

Note:

Because the overclock, overvoltage, and hardware monitor features are controlled by several separate chipset, [WarpSpeeder™] divide these features to separate panels. If one chipset is not on board, the correlative button in Main panel will be disabled, but will not interfere other panels’ functions. This property can make [WarpSpeeder™] utility more robust.

APPENDENCIES: SPEC IN OTHER LANGUAGE

GERMAN

	Ver 5.x	*Ver 6.x*
CPU	Sockel AM2 AMD Sempron / Athlon 64 / Athlon 64 FX / Althlon 64 X2 Prozessoren Die AMD 64-Architektur unterstützt eine 32-Bit- und 64-Bit-Datenverarbeitung Unterstützt Hyper Transport und Cool'n'Quiet	Sockel AM2 AMD Sempron / Athlon 64 / Athlon 64 FX / Althlon 64 X2 Prozessoren Die AMD 64-Architektur unterstützt eine 32-Bit- und 64-Bit-Datenverarbeitung Unterstützt Hyper Transport und Cool'n'Quiet
FSB	Unterstützt HyperTransport mit einer Bandbreite von bis zu 1GHz	Unterstützt HyperTransport mit einer Bandbreite von bis zu 1GHz
Chipsatz	K8T890 VT8237A	K8T890 VT8237A
Super E/A	ITE IT8726F-S Bietet die häufig verwendeten alten Super E/A-Funktionen. Low Pin Count-Schnittstelle Umgebungskontrolle, Hardware-Überwachung Lüfterdrehzahl-Controller "Smart Guardian"-Funktion von ITE	ITE IT8726F-S Bietet die häufig verwendeten alten Super E/A-Funktionen. Low Pin Count-Schnittstelle Umgebungskontrolle, Hardware-Überwachung Lüfterdrehzahl-Controller "Smart Guardian"-Funktion von ITE
Arbeitsspeicher	DDR2 DIMM-Steckplätze x 2 Jeder DIMM unterstützt 256/512MB & 1GB DDR2. Max. 2GB Arbeitsspeicher Dual-Kanal DDR2 Speichermodul Unterstützt DDR2 400 / 533 / 667 / 800 registrierte DIMMs. ECC DIMMs werden nicht unterstützt.	DDR2 DIMM-Steckplätze x 2 Jeder DIMM unterstützt 256/512MB & 1GB DDR2. Max. 2GB Arbeitsspeicher Dual-Kanal DDR2 Speichermodul Unterstützt DDR2 400 / 533 / 667 / 800 registrierte DIMMs. ECC DIMMs werden nicht unterstützt.
IDE	Integrierter IDE-Controller Ultra DMA 33 / 66 / 100 / 133 Bus Master-Modus Unterstützt PIO-Modus 0~4,	Integrierter IDE-Controller Ultra DMA 33 / 66 / 100 / 133 Bus Master-Modus Unterstützt PIO-Modus 0~4,
SATA	Integrierter Serial ATA-Controller Datentransferrate bis zu 1.5Gb/s Konform mit der SATA-Spezifikation Version 1.0.	Integrierter Serial ATA-Controller Datentransferrate bis zu 1.5Gb/s Konform mit der SATA-Spezifikation Version 1.0.
LAN	Realtek RTL8201CL 10 / 100 Mb/s Auto-Negotiation Halb-/Vollduplex-Funktion	Realtek RTL8201CL 10 / 100 Mb/s Auto-Negotiation Halb-/Vollduplex-Funktion

	Ver 5.x		*Ver 6.x*	
Audio-Codec	ALC 888 7.1-Kanal-Audioausgabe Unterstützt High-Definition Audio		ALC 861VD 5.1-Kanal-Audioausgabe Unterstützt High-Definition Audio	
Steckplätze	PCI-Steckplatz PCI Express x16-Steckplatz PCI Express x1-Steckplatz	x3 x1 x2	PCI-Steckplatz PCI Express x16-Steckplatz PCI Express x1-Steckplatz	x3 x1 x2
Onboard-Anschluss	Diskettenlaufwerkanschluss IDE-Anschluss SATA-Anschluss Fronttafelanschluss Front-Audioanschluss CD-IN-Anschluss S/PDIF-Ausgangsanschluss CPU-Lüfter-Sockel System-Lüfter-Sockel "CMOS löschen"-Sockel USB-Anschluss Druckeranschluss Anschluss "Gehäuse offen"-Sockel(optional) Stromanschluss (24-polig) Stromanschluss (4-polig)	x1 x2 x2 x1 x1 x1 x1 x1 x1 x1 x2 x1 x1 x1 x1	Diskettenlaufwerkanschluss IDE-Anschluss SATA-Anschluss Fronttafelanschluss Front-Audioanschluss CD-IN-Anschluss S/PDIF-Ausgangsanschluss CPU-Lüfter-Sockel System-Lüfter-Sockel "CMOS löschen"-Sockel USB-Anschluss Druckeranschluss Anschluss "Gehäuse offen"-Sockel(optional) Stromanschluss (24-polig) Stromanschluss (4-polig)	x1 x2 x2 x1 x1 x1 x1 x1 x1 x1 x2 x1 x1 x1 x1
Rückseiten-E/A	PS/2-Tastatur PS/2-Maus Serieller Anschluss LAN-Anschluss USB-Anschluss Audioanschluss	x1 x1 x1 x1 x4 x6	PS/2-Tastatur PS/2-Maus Serieller Anschluss LAN-Anschluss USB-Anschluss Audioanschluss	x1 x1 x1 x1 x4 x3
Platinengröße	195 mm (B) X 293 mm (L)		195 mm (B) X 293 mm (L)	
Sonderfunktionen	Unterstützt RAID 0 / 1		Unterstützt RAID 0 / 1	
OS-Unterstützung	Windows 2000 / XP / VISTA Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.		Windows 2000 / XP / VISTA Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.	

FRANCE

	Ver 5.x	*Ver 6.x*
UC	Socket AM2 Processeurs AMD Sempron / Athlon 64 / Athlon 64 FX / Althlon 64 X2 L'architecture AMD 64 permet le calcul 32 et 64 bits Prend en charge Hyper Transport et Cool'n'Quiet	Socket AM2 Processeurs AMD Sempron / Athlon 64 / Athlon 64 FX / Althlon 64 X2 L'architecture AMD 64 permet le calcul 32 et 64 bits Prend en charge Hyper Transport et Cool'n'Quiet
Bus frontal	Prend en charge Hyper Transport jusqu'à une bande passante de 1GHz	Prend en charge Hyper Transport jusqu'à une bande passante de 1GHz
Chipset	K8T890 VT8237A	K8T890 VT8237A
Super E/S	ITE IT8726F-S Fournit la fonctionnalité de Super E/S patrimoniales la plus utilisée. Interface à faible compte de broches Initiatives de contrôle environnementales, Moniteur de matériel Contrôleur de vitesse de ventilateur Fonction "Gardien intelligent" de l'ITE	ITE IT8726F-S Fournit la fonctionnalité de Super E/S patrimoniales la plus utilisée. Interface à faible compte de broches Initiatives de contrôle environnementales, Moniteur de matériel Contrôleur de vitesse de ventilateur Fonction "Gardien intelligent" de l'ITE
Mémoire principale	Fentes DDR2 DIMM x 2 Chaque DIMM prend en charge des DDR2 de 256/512 Mo et 1Go Capacité mémoire maximale de 2 Go Module de mémoire DDR2 à mode à double voie Prend en charge la DDR2 400 / 533 / 667 / 800 Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge	Fentes DDR2 DIMM x 2 Chaque DIMM prend en charge des DDR2 de 256/512 Mo et 1Go Capacité mémoire maximale de 2 Go Module de mémoire DDR2 à mode à double voie Prend en charge la DDR2 400 / 533 / 667 / 800 Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge
IDE	Contrôleur IDE intégré Mode principale de Bus Ultra DMA 33 / 66 / 100 / 133 Prend en charge le mode PIO 0~4,	Contrôleur IDE intégré Mode principale de Bus Ultra DMA 33 / 66 / 100 / 133 Prend en charge le mode PIO 0~4,
SATA	Contrôleur Serial ATA intégré : Taux de transfert jusqu'à 1.5 Go/s. Conforme à la spécification SATA Version 1.0	Contrôleur Serial ATA intégré : Taux de transfert jusqu'à 1.5 Go/s. Conforme à la spécification SATA Version 1.0
LAN	Realtek RTL8201CL 10 / 100 Mb/s négociation automatique Half / Full duplex capability	Realtek RTL8201CL 10 / 100 Mb/s négociation automatique Half / Full duplex capability

	Ver 5.x		*Ver 6.x*	
Codec audio	ALC 888 Sortie audio à 7.1 voies Prise en charge de l'audio haute définition		ALC 861VD Sortie audio à 5.1 voies Prise en charge de l'audio haute définition	
Fentes	Fente PCI Fente PCI Express x16 Fente PCI Express x1	x3 x1 x2	Fente PCI Fente PCI Express x16 Fente PCI Express x1	x3 x1 x2
Connecteur embarqué	Connecteur de disquette Connecteur IDE Connecteur SATA Connecteur du panneau avant Connecteur Audio du panneau avant Connecteur d'entrée CD Connecteur de sortie S/PDIF Embase de ventilateur UC Embase de ventilateur système Embase d'effacement CMOS Connecteur USB Connecteur de Port d'imprimante Embase d'ouverture de châssis (en option) Connecteur d'alimentation (24 broches) Connecteur d'alimentation (4 broches)	x1 x2 x2 x1 x1 x1 x1 x1 x1 x1 x2 x1 x1 x1 x1	Connecteur de disquette Connecteur IDE Connecteur SATA Connecteur du panneau avant Connecteur Audio du panneau avant Connecteur d'entrée CD Connecteur de sortie S/PDIF Embase de ventilateur UC Embase de ventilateur système Embase d'effacement CMOS Connecteur USB Connecteur de Port d'imprimante Embase d'ouverture de châssis (en option) Connecteur d'alimentation (24 broches) Connecteur d'alimentation (4 broches)	x1 x2 x2 x1 x1 x1 x1 x1 x1 x1 x2 x1 x1 x1 x1
E/S du panneau arrière	Clavier PS/2 Souris PS/2 Port série Port LAN Port USB Fiche audio	x1 x1 x1 x1 x4 x6	Clavier PS/2 Souris PS/2 Port série Port LAN Port USB Fiche audio	x1 x1 x1 x1 x4 x3
Dimensions de la carte	195 mm (l) X 293 mm (H)		195 mm (l) X 293 mm (H)	
Fonctionnalités spéciales	Prise en charge RAID 0 / 1		Prise en charge RAID 0 / 1	
Support SE	Windows 2000 / XP / VISTA Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.		Windows 2000 / XP / VISTA Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.	

ITALIAN

	Ver 5.x	*Ver 6.x*
CPU	Socket AM2 Processori AMD Sempron / Athlon 64 / Athlon 64 FX / Althlon 64 X2 L'architettura AMD 64 abilita la computazione 32 e 64 bit Supporto di Hyper Transport e Cool'n'Quiet	Socket AM2 Processori AMD Sempron / Athlon 64 / Athlon 64 FX / Althlon 64 X2 L'architettura AMD 64 abilita la computazione 32 e 64 bit Supporto di Hyper Transport e Cool'n'Quiet
FSB	Supporto di HyperTransport fino a1GHz di larghezza di banda	Supporto di HyperTransport fino a1GHz di larghezza di banda
Chipset	K8T890 VT8237A	K8T890 VT8237A
Super I/O	ITE IT8726F-S Fornisce le funzionalità legacy Super I/O usate più comunemente. Interfaccia LPC (Low Pin Count) Funzioni di controllo dell'ambiente: Monitoraggio hardware Controller velocità ventolina Funzione "Smart Guardian" di ITE	ITE IT8726F-S Fornisce le funzionalità legacy Super I/O usate più comunemente. Interfaccia LPC (Low Pin Count) Funzioni di controllo dell'ambiente: Monitoraggio hardware Controller velocità ventolina Funzione "Smart Guardian" di ITE
Memoria principale	Alloggi DIMM DDR2 x 2 CiascunDIMM supporta DDR2 256/512MB e 1GB Capacità massima della memoria 2GB Modulo di memoria DDR2 a canale doppio Supporto di DDR2 400 / 533 / 667 / 800 DIMM registrati e DIMM ECC non sono supportati	Alloggi DIMM DDR2 x 2 CiascunDIMM supporta DDR2 256/512MB e 1GB Capacità massima della memoria 2GB Modulo di memoria DDR2 a canale doppio Supporto di DDR2 400 / 533 / 667 / 800 DIMM registrati e DIMM ECC non sono supportati
IDE	Controller IDE integrato Modalità Bus Master Ultra DMA 33 / 66 / 100 / 133 Supporto modalità PIO Mode 0-4	Controller IDE integrato Modalità Bus Master Ultra DMA 33 / 66 / 100 / 133 Supporto modalità PIO Mode 0-4
SATA	Controller Serial ATA integrato Velocità di trasferimento dei dati fino a 1.5 Gb/s. Compatibile specifiche SATA Versione 1.0.	Controller Serial ATA integrato Velocità di trasferimento dei dati fino a 1.5 Gb/s. Compatibile specifiche SATA Versione 1.0.
LAN	Realtek RTL8201CL Negoziazione automatica 10 / 100Mb/s Capacità Half / Full Duplex	Realtek RTL8201CL Negoziazione automatica 10 / 100Mb/s Capacità Half / Full Duplex

	Ver 5.x		*Ver 6.x*	
Codec audio	ALC 888 Uscita audio 7.1 canali Supporto audio High-Definition (HD)		ALC 861VD Uscita audio 5.1 canali Supporto audio High-Definition (HD)	
Alloggi	Alloggio PCI	x3	Alloggio PCI	x3
	Alloggio PCI Express x16	x1	Alloggio PCI Express x16	x1
	Alloggio PCI Express x1	x2	Alloggio PCI Express x1	x2
Connettori su scheda	Connettore floppy	x1	Connettore floppy	x1
	Connettore IDE	x2	Connettore IDE	x2
	Connettore SATA	x2	Connettore SATA	x2
	Connettore pannello frontale	x1	Connettore pannello frontale	x1
	Connettore audio frontale	x1	Connettore audio frontale	x1
	Connettore CD-in	x1	Connettore CD-in	x1
	Connettore output SPDIF	x1	Connettore output SPDIF	x1
	Collettore ventolina CPU	x1	Collettore ventolina CPU	x1
	Collettore ventolina sistema	x1	Collettore ventolina sistema	x1
	Collettore cancellazione CMOS	x1	Collettore cancellazione CMOS	x1
	Connettore USB	x2	Connettore USB	x2
	Connettore Porta stampante	x1	Connettore Porta stampante	x1
	Collettore apertura telaio (optional)	x1	Collettore apertura telaio (optional)	x1
	Connettore alimentazione (24 pin)	x1	Connettore alimentazione (24 pin)	x1
	Connettore alimentazione (4 pin)	x1	Connettore alimentazione (4 pin)	x1
I/O pannello posteriore	Tastiera PS/2	x1	Tastiera PS/2	x1
	Mouse PS/2	x1	Mouse PS/2	x1
	Porta seriale	x1	Porta seriale	x1
	Porta LAN	x1	Porta LAN	x1
	Porta USB	x4	Porta USB	x4
	Connettore audio	x6	Connettore audio	x3
Dimensioni scheda	195 mm (larghezza) x 293 mm (altezza)		195 mm (larghezza) x 293 mm (altezza)	
Caratteristiche speciali	Supporto RAID 0 / 1		Supporto RAID 0 / 1	
Sistemi operativi supportati	Windows 2000 / XP / VISTA Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.		Windows 2000 / XP / VISTA Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.	

SPANISH

	Ver 5.x	*Ver 6.x*
CPU	Conector AM2 Procesadores AMD Sempron / Athlon 64 / Athlon 64 FX / Athlon 64 X2 La arquitectura AMD 64 permite el procesado de 32 y 64 bits Soporta las tecnologías Hyper Transport y Cool'n'Quiet	Conector AM2 Procesadores AMD Sempron / Athlon 64 / Athlon 64 FX / Athlon 64 X2 La arquitectura AMD 64 permite el procesado de 32 y 64 bits Soporta las tecnologías Hyper Transport y Cool'n'Quiet
FSB	Admite HyperTransport con un ancho de banda de hasta 1GHz	Admite HyperTransport con un ancho de banda de hasta 1GHz
Conjunto de chips	K8T890 VT8237A	K8T890 VT8237A
Súper E/S	ITE IT8726F-S Le ofrece las funcionalidades heredadas de uso más común Súper E/S. Interfaz de cuenta Low Pin Iniciativas de control de entorno, Monitor hardware Controlador de velocidad de ventilador Función "Guardia inteligente" de ITE	ITE IT8726F-S Le ofrece las funcionalidades heredadas de uso más común Súper E/S. Interfaz de cuenta Low Pin Iniciativas de control de entorno, Monitor hardware Controlador de velocidad de ventilador Función "Guardia inteligente" de ITE
Memoria principal	Ranuras DIMM DDR2 x 2 Cada DIMM admite DDR de 256/512MB y 1GB Capacidad máxima de memoria de 2GB Módulo de memoria DDR2 de canal Doble Admite DDR2 de 400 / 533 / 667 / 800 No admite DIMM registrados o DIMM compatibles con ECC	Ranuras DIMM DDR2 x 2 Cada DIMM admite DDR de 256/512MB y 1GB Capacidad máxima de memoria de 2GB Módulo de memoria DDR2 de canal Doble Admite DDR2 de 400 / 533 / 667 / 800 No admite DIMM registrados o DIMM compatibles con ECC
IDE	Controlador IDE integrado Modo bus maestro Ultra DMA 33/ 66 / 100/ 133 Soporte los Modos PIO 0~4,	Controlador IDE integrado Modo bus maestro Ultra DMA 33/ 66 / 100/ 133 Soporte los Modos PIO 0~4,
SATA	Controlador ATA Serie Integrado Tasas de transferencia de hasta 1.5 Gb/s. Compatible con la versión SATA 1.0.	Controlador ATA Serie Integrado Tasas de transferencia de hasta 1.5 Gb/s. Compatible con la versión SATA 1.0.
Red Local	Realtek RTL8201CL Negociación de 10 / 100 Mb/s Funciones Half/ Full dúplex	Realtek RTL8201CL Negociación de 10 / 100 Mb/s Funciones Half/ Full dúplex

	Ver 5.x		*Ver 6.x*	
Códecs de sonido	ALC 888 Salida de sonido de 7.1 canales Soporte de sonido Alta Definición		ALC 861VD Salida de sonido de 5.1 canales Soporte de sonido Alta Definición	
Ranuras	Ranura PCI Ranura PCI Express x16 Ranura PCI Express x1	X3 X1 X2	Ranura PCI Ranura PCI Express x16 Ranura PCI Express x1	X3 X1 X2
Conectores en placa	Conector disco flexible Conector IDE Conector SATA Conector de panel frontal Conector de sonido frontal Conector de entrada de CD Conector de salida S/PDIF Cabecera de ventilador de CPU Cabecera de ventilador de sistema Cabecera de borrado de CMOS Conector USB Conector Puerto de impresora Cabecera de chasis abierto (opcional) Conector de alimentación (24 patillas) Conector de alimentación (4 patillas)	X1 X2 X2 X1 X1 X1 X1 X1 X1 X1 X2 X1 X1 X1 X1	Conector disco flexible Conector IDE Conector SATA Conector de panel frontal Conector de sonido frontal Conector de entrada de CD Conector de salida S/PDIF Cabecera de ventilador de CPU Cabecera de ventilador de sistema Cabecera de borrado de CMOS Conector USB Conector Puerto de impresora Cabecera de chasis abierto (opcional) Conector de alimentación (24 patillas) Conector de alimentación (4 patillas)	X1 X2 X2 X1 X1 X1 X1 X1 X1 X1 X2 X1 X1 X1 X1
Panel trasero de E/S	Teclado PS/2 Ratón PS/2 Puerto serie Puerto de red local Puerto USB Conector de sonido	X1 X1 X1 X1 X4 X6	Teclado PS/2 Ratón PS/2 Puerto serie Puerto de red local Puerto USB Conector de sonido	X1 X1 X1 X1 X4 X3
Tamaño de la placa	195 mm. (A) X 293 Mm. (H)		195 mm. (A) X 293 Mm. (H)	
Funciones especiales	Admite RAID 0 / 1		Admite RAID 0 / 1	
Soporte de sistema operativo	Windows 2000 / XP / VISTA Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.		Windows 2000 / XP / VISTA Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.	

PORTUGUESE

	Ver 5.x	*Ver 6.x*
CPU	Socket AM2 Processadores AMD Sempron / Athlon 64 / Athlon 64 FX / Althlon 64 X2 A arquitectura AMD 64 permite uma computação de 32 e 64 bits Suporta as tecnologias Hyper Transport e Cool'n'Quiet	Socket AM2 Processadores AMD Sempron / Athlon 64 / Athlon 64 FX / Althlon 64 X2 A arquitectura AMD 64 permite uma computação de 32 e 64 bits Suporta as tecnologias Hyper Transport e Cool'n'Quiet
FSB	Suporta a tecnologia HyperTransport com uma largura de banda até 1GHz	Suporta a tecnologia HyperTransport com uma largura de banda até 1GHz
Chipset	K8T890 VT8237A	K8T890 VT8237A
Especificação Super I/O	ITE IT8726F-S Proporciona as funcionalidades mais utilizadas em termos da especificação Super I/O. Interface LPC (Low Pin Count). Iniciativas para controlo do ambiente Monitorização do hardware Controlador da velocidade da ventoinha Função "Smart Guardian" da ITE	ITE IT8726F-S Proporciona as funcionalidades mais utilizadas em termos da especificação Super I/O. Interface LPC (Low Pin Count). Iniciativas para controlo do ambiente Monitorização do hardware Controlador da velocidade da ventoinha Função "Smart Guardian" da ITE
Memória principal	Ranhuras DIMM DDR2 x 2 Cada módulo DIMM suporta uma memória DDR2 de 256/512 MB & 1 GB Capacidade máxima de memória: 2 GB Módulo de memória DDR2 de canal duplo Suporta módulos DDR2 400 / 533 / 667 / 800 Os módulos DIMM registados e os DIMM ECC não são suportados	Ranhuras DIMM DDR2 x 2 Cada módulo DIMM suporta uma memória DDR2 de 256/512 MB & 1 GB Capacidade máxima de memória: 2 GB Módulo de memória DDR2 de canal duplo Suporta módulos DDR2 400 / 533 / 667 / 800 Os módulos DIMM registados e os DIMM ECC não são suportados
IDE	Controlador IDE integrado Modo Bus master Ultra DMA 33 / 66 / 100 / 133 Suporta o modo PIO 0~4,	Controlador IDE integrado Modo Bus master Ultra DMA 33 / 66 / 100 / 133 Suporta o modo PIO 0~4,
SATA	Controlador Serial ATA integrado Velocidades de transmissão de dados até 1.5 Gb/s. Compatibilidade com a especificação SATA versão 1.0.	Controlador Serial ATA integrado Velocidades de transmissão de dados até 1.5 Gb/s. Compatibilidade com a especificação SATA versão 1.0.
LAN	Realtek RTL8201CL Auto negociação de 10 / 100 Mb/s Capacidade semi/full-duplex	Realtek RTL8201CL Auto negociação de 10 / 100 Mb/s Capacidade semi/full-duplex

	Ver 5.x		*Ver 6.x*	
Codec de som	ALC 888 Saída de áudio de 7.1 canais Suporta a especificação High-Definition Audio		ALC 861VD Saída de áudio de 5.1 canais Suporta a especificação High-Definition Audio	
Ranhuras	Ranhura PCI Ranhura PCI Express x16 Ranhura PCI Express x1	x3 x1 x2	Ranhura PCI Ranhura PCI Express x16 Ranhura PCI Express x1	x3 x1 x2
Conectores na placa	Conector da unidade de disquetes Conector IDE Conector SATA Conector do painel frontal Conector de áudio frontal Conector para entrada de CDs Conector de saída S/PDIF Conector da ventoinha da CPU Conector da ventoinha do sistema Conector para limpeza do CMOS Conector USB Conector da para impressora Conector para detecção da abertura do chassis (opcional) Conector de alimentação (24 pinos) Conector de alimentação (4 pinos)	x1 x2 x2 x1 x1 x1 x1 x1 x1 x1 x2 x1 x1 x1 x1	Conector da unidade de disquetes Conector IDE Conector SATA Conector do painel frontal Conector de áudio frontal Conector para entrada de CDs Conector de saída S/PDIF Conector da ventoinha da CPU Conector da ventoinha do sistema Conector para limpeza do CMOS Conector USB Conector da para impressora Conector para detecção da abertura do chassis (opcional) Conector de alimentação (24 pinos) Conector de alimentação (4 pinos)	x1 x2 x2 x1 x1 x1 x1 x1 x1 x1 x2 x1 x1 x1 x1
Entradas/Saídas no painel traseiro	Teclado PS/2 Rato PS/2 Porta série Porta LAN Porta USB Tomada de áudio	x1 x1 x1 x1 x4 x6	Teclado PS/2 Rato PS/2 Porta série Porta LAN Porta USB Tomada de áudio	x1 x1 x1 x1 x4 x3
Tamanho da placa	195 mm (L) X 293 mm (A)		195 mm (L) X 293 mm (A)	
Características especiais	Suporta as funções RAID 0 / 1		Suporta as funções RAID 0 / 1	
Sistemas operativos suportados	Windows 2000 / XP / VISTA A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio.		Windows 2000 / XP / VISTA A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio.	

POLISH

	Ver 5.x	*Ver 6.x*
Procesor	Socket AM2 AMD Sempron / Athlon 64 / Athlon 64 FX / Althlon 64 X2 Procesory Architektura AMD 64 umożliwia przetwarzanie 32 i 64 bitowe Obsługa Hyper Transport oraz Cool'n'Quiet	Socket AM2 AMD Sempron / Athlon 64 / Athlon 64 FX / Althlon 64 X2 Procesory Architektura AMD 64 umożliwia przetwarzanie 32 i 64 bitowe Obsługa Hyper Transport oraz Cool'n'Quiet
FSB	Obsługa HyperTransport o szerokości pasma do1GHz	Obsługa HyperTransport o szerokości pasma do1GHz
Chipset	K8T890 VT8237A	K8T890 VT8237A
Pamięć główna	Gniazda DDR2 DIMM x 2 Każde gniazdo DIMM obsługuje moduły 256/512MB oraz 1GB DDR2 Maks. wielkość pamięci 2GB Moduł pamięci DDR2 z trybem podwójnego kanału Obsługa DDR2 400 / 533 / 667 / 800 Brak obsługi Registered DIMM oraz ECC DIMM	Gniazda DDR2 DIMM x 2 Każde gniazdo DIMM obsługuje moduły 256/512MB oraz 1GB DDR2 Maks. wielkość pamięci 2GB Moduł pamięci DDR2 z trybem podwójnego kanału Obsługa DDR2 400 / 533 / 667 / 800 Brak obsługi Registered DIMM oraz ECC DIMM
Super I/O	ITE IT8726F-S Zapewnia najbardziej powszechne funkcje Super I/O. Interfejs Low Pin Count Funkcje kontroli warunków pracy, Monitor H/W Kontroler prędkości wentylatora Funkcja ITE "Smart Guardian"	ITE IT8726F-S Zapewnia najbardziej powszechne funkcje Super I/O. Interfejs Low Pin Count Funkcje kontroli warunków pracy, Monitor H/W Kontroler prędkości wentylatora Funkcja ITE "Smart Guardian"
IDE	Zintegrowany kontroler IDE Ultra DMA 33 / 66 / 100 / 133 Tryb Bus Master obsługa PIO tryb 0~4,	Zintegrowany kontroler IDE Ultra DMA 33 / 66 / 100 / 133 Tryb Bus Master obsługa PIO tryb 0~4,
SATA	Zintegrowany kontroler Serial ATA Transfer danych do 1.5 Gb/s. Zgodność ze specyfikacją SATA w wersji 1.0.	Zintegrowany kontroler Serial ATA Transfer danych do 1.5 Gb/s. Zgodność ze specyfikacją SATA w wersji 1.0.
LAN	Realtek RTL8201CL 10 / 100 Mb/s z automatyczną negocjacją szybkości Działanie w trybie połowicznego / pełnego dupleksu	Realtek RTL8201CL 10 / 100 Mb/s z automatyczną negocjacją szybkości Działanie w trybie połowicznego / pełnego dupleksu

	Ver 5.x		*Ver 6.x*	
Kodek dźwiękowy	ALC 888 7.1 kanałowe wyjście audio Obsługa High-Definition Audio		ALC 861VD 5.1 kanałowe wyjście audio Obsługa High-Definition Audio	
Gniazda	Gniazdo PCI	x3	Gniazdo PCI	x3
	Gniazdo PCI Express x16	x1	Gniazdo PCI Express x16	x1
	Gniazdo PCI Express x1	x2	Gniazdo PCI Express x1	x2
Złącza wbudowane	Złącze napędu dyskietek	x1	Złącze napędu dyskietek	x1
	Złącze IDE	x2	Złącze IDE	x2
	Złącze SATA	x2	Złącze SATA	x2
	Złącze panela przedniego	x1	Złącze panela przedniego	x1
	Przednie złącze audio	x1	Przednie złącze audio	x1
	Złącze wejścia CD	x1	Złącze wejścia CD	x1
	Złącze wyjścia S/PDIF	x1	Złącze wyjścia S/PDIF	x1
	Złącze głównkowe wentylatora procesora	x1	Złącze głównkowe wentylatora procesora	x1
	Złącze głównkowe wentylatora systemowego	x1	Złącze głównkowe wentylatora systemowego	x1
	Złącze głównkowe kasowania CMOS	x1	Złącze głównkowe kasowania CMOS	x1
	Złącze USB	x2	Złącze USB	x2
	Złącze Port drukarki	x1	Złącze Port drukarki	x1
	Złącze głównkowe otwarcia obudowy(opcja)	x1	Złącze głównkowe otwarcia obudowy(opcja)	x1
	Złącze zasilania (24 pinowe)	x1	Złącze zasilania (24 pinowe)	x1
	Złącze zasilania (4 pinowe)	x1	Złącze zasilania (4 pinowe)	x1
Back Panel I/O	Klawiatura PS/2	x1	Klawiatura PS/2	x1
	Mysz PS/2	x1	Mysz PS/2	x1
	Port szeregowy	x1	Port szeregowy	x1
	Port LAN	x1	Port LAN	x1
	Port USB	x4	Port USB	x4
	Gniazdo audio	x6	Gniazdo audio	x3
Wymiary płyty	195 mm (S) X 293 mm (W)		195 mm (S) X 293 mm (W)	
Funkcje specjalne	Obsługa RAID 0 / 1		Obsługa RAID 0 / 1	
Obsługa systemu operacyjnego	Windows 2000 / XP / VISTA Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.		Windows 2000 / XP / VISTA Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.	

RUSSIAN

	Ver 5.x	*Ver 6.x*
CPU (центральный процессор)	Гнездо AM2 Процессоры AMD Sempron / Athlon 64 / Athlon 64 FX / Althlon 64 X2 Архитектура AMD 64 разрешать обработка данных на 32 и 64 бит Поддержка Hyper Transport и Cool'n'Quiet	Гнездо AM2 Процессоры AMD Sempron / Athlon 64 / Athlon 64 FX / Althlon 64 X2 Архитектура AMD 64 разрешать обработка данных на 32 и 64 бит Поддержка Hyper Transport и Cool'n'Quiet
FSB	Поддержка HyperTransport с пропускной способностью до 1ГГц	Поддержка HyperTransport с пропускной способностью до 1ГГц
Набор микросхем	K8T890 VT8237A	K8T890 VT8237A
Основная память	Слоты DDR2 DIMM x 2 Каждый модуль DIMM поддерживает 256/512МБ & 1ГБ DDR2 Максимальная ёмкость памяти 2 ГБ Модуль памяти с двухканальным режимом DDR2 Поддержка DDR2 400 / 533 / 667 / 800 Не поддерживает зарегистрированные модули DIMM and ECC DIMM	Слоты DDR2 DIMM x 2 Каждый модуль DIMM поддерживает 256/512МБ & 1ГБ DDR2 Максимальная ёмкость памяти 2 ГБ Модуль памяти с двухканальным режимом DDR2 Поддержка DDR2 400 / 533 / 667 / 800 Не поддерживает зарегистрированные модули DIMM and ECC DIMM
Super I/O	ITE IT8726F-S Обеспечивает наиболее используемые действующие функциональные возможности Super I/O. Интерфейс с низким количеством выводов Инициативы по охране окружающей среды, Аппаратный монитор Регулятор скорости Функция ITE "Smart Guardian" (Интеллектуальная защита)	ITE IT8726F-S Обеспечивает наиболее используемые действующие функциональные возможности Super I/O. Интерфейс с низким количеством выводов Инициативы по охране окружающей среды, Аппаратный монитор Регулятор скорости Функция ITE "Smart Guardian" (Интеллектуальная защита)
IDE	Встроенное устройство управления встроенными интерфейсами устройств Режим "хозяина" шины Ultra DMA 33 / 66 / 100 / 133 Поддержка режима PIO 0~4,	Встроенное устройство управления встроенными интерфейсами устройств Режим "хозяина" шины Ultra DMA 33 / 66 / 100 / 133 Поддержка режима PIO 0~4,
SATA	Встроенное последовательное устройство управления ATA скорость передачи данных до 1.5 гигабит/с. Соответствие спецификации SATA версия 1.0.	Встроенное последовательное устройство управления ATA скорость передачи данных до 1.5 гигабит/с. Соответствие спецификации SATA версия 1.0.
Локальная сеть	Realtek RTL8201CL Автоматическое согласование 10 / 100 Мб/с Частичная / полная дуплексная способность	Realtek RTL8201CL Автоматическое согласование 10 / 100 Мб/с Частичная / полная дуплексная способность

	Ver 5.x	*Ver 6.x*
Звуковой кодек	ALC888 Звуковая поддержка High-Definition 7.1канальный звуковой выход	ALC861VD Звуковая поддержка High-Definition 5.1канальный звуковой выход
Слоты	Слот PCI x3 Слот PCI Express x16 x1 Слот PCI Express x1 x2	Слот PCI x3 Слот PCI Express x16 x1 Слот PCI Express x1 x2
Встроенный разъём	Разъём НГМД x1 Разъём IDE x2 Разъём SATA x2 Разъём на лицевой панели x1 Входной звуковой разъём x1 Разъём ввода для CD x1 Разъём вывода для S/PDIF x1 Контактирующее приспособление вентилятора центрального процессора x1 Контактирующее приспособление вентилятора системы x1 Открытое контактирующее приспособление CMOS x1 USB-разъём x2 Разъём Порт подключения принтера x1 Шасси открытого контактирующего приспособления(дополнительно) x1 Разъем питания (24 вывод) x1 Разъем питания (4 вывод) x1	Разъём НГМД x1 Разъём IDE x2 Разъём SATA x2 Разъём на лицевой панели x1 Входной звуковой разъём x1 Разъём ввода для CD x1 Разъём вывода для S/PDIF x1 Контактирующее приспособление вентилятора центрального процессора x1 Контактирующее приспособление вентилятора системы x1 Открытое контактирующее приспособление CMOS x1 USB-разъём x2 Разъём Порт подключения принтера x1 Шасси открытого контактирующего приспособления(дополнительно) x1 Разъем питания (24 вывод) x1 Разъем питания (4 вывод) x1
Задняя панель средств ввода-вывода	Клавиатура PS/2 x1 Мышь PS/2 x1 Последовательный порт x1 Порт LAN x1 USB-порт x4 Гнездо для подключения наушников x6	Клавиатура PS/2 x1 Мышь PS/2 x1 Последовательный порт x1 Порт LAN x1 USB-порт x4 Гнездо для подключения наушников x3
Размер панели	195 мм (Ш) X 293мм (В)	195 мм (Ш) X 293мм (В)
Специальные технические характеристики	Поддержка RAID 0/ 1	Поддержка RAID 0/ 1
Поддержка OS	Windows 2000 / XP / VISTA Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.	Windows 2000 / XP / VISTA Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.

ARABIC

	Ver 5.x	Ver 6.x
وحدة لمعلجة المركزية	AM2مقبس AMD Sempron / Athlon 64 /معلجات Athlon 64 FX / Althlon 64 X2 إجراء العطيات لحلسوبية بسوعة 32 و64 بت64 AMDتمكن تقنية Cool'n'Quiet و Hyper Transportتدعم تقنية	AM2مقبس AMD Sempron / Athlon 64 /معلجات Athlon 64 FX / Althlon 64 X2 إجراء العطيات لحلسوبية بسوعة 32 و64 بت64 AMDتمكن تقنية Cool'n'Quiet و Hyper Transportتدعم تقنية
النقل الأمامي لجلبي	تردد1000 بتردد يصل إلى HyperTransportدعم تقنية	تردد1000 بتردد يصل إلى HyperTransportدعم تقنية
مجموعة لشرائح	K8T890 VT8237A	K8T890 VT8237A
الذاكرة الرئيسية	فتحةDDR2 DIMM عدد2 ميجا256/512 سعة DDR2 دعم ذاكرة من نوعDIMMتدعم كل قحة بليت و1 جيجا بليت سعة ذاكرة قصوى 2جيجا بايت مزنوجة لقنةDDR2وحدة ذاكرة سعات400/533 / 667/ 800 ميجاDDR2تدعم الذاكرة من نوع بليت ECC ونك التي لا تتواق معDIMMلا دعم رقنق الذاكرة	فتحةDDR2 DIMM عدد2 ميجا256/512 سعة DDR2 دعم ذاكرة من نوعDIMMتدعم كل قحة بليت و1 جيجا بليت سعة ذاكرة قصوى 2جيجا بايت مزنوجة لقنةDDR2وحدة ذاكرة سعات400/533 / 667/ 800 ميجاDDR2تدعم الذاكرة من نوع بليت ECC ونك التي لا تتواق معDIMMلا دعم رقنق الذاكرة
Super I/O	ITE IT8726F-S الأكثر استخداما. Super I/Oتوفر وظيفة Low Pin Count Interfaceتدعم تقنية وسائل لتحكم في لبيئة: مرقب لمعوفة حلة الأجهزة مرقب في سوعة لمروحة ITE من"Smart Guardian"وظيفة	ITE IT8726F-S الأكثر استخداما. Super I/Oتوفر وظيفة Low Pin Count Interfaceتدعم تقنية وسائل لتحكم في لبيئة: مرقب لمعوفة حلة الأجهزة مرقب في سوعة لمروحة ITE من"Smart Guardian"وظيفة
منفذ IDE	متكاملIDEمتحكم Ultra DMA 33 / 66 / 100 / 133نقل بتقنية وضع رئيسي PIO Mode 0~4دعم وضع	متكاملIDEمتحكم Ultra DMA 33 / 66 / 100 / 133نقل بتقنية وضع رئيسي PIO Mode 0~4دعم وضع
SATA	متكاملSerial ATAمتحكم نقل البيانات بسرعات تصل إلى 1.5 جيجابت/ثانية. 1.0 الإصدار SATAمطابقة لمواصفات	متكاملSerial ATAمتحكم نقل البيانات بسرعات تصل إلى 1.5 جيجابت/ثانية. 1.0 الإصدار SATAمطابقة لمواصفات
شبكة داخلية	Realtek RTL8201CL تفوض قنائي100/10 ميجا بايت /ثانية إمكانية النقل لمزنوج الكامل/النصفي	Realtek RTL8201CL تفوض قنائي100/10 ميجا بايت /ثانية إمكانية النقل لمزنوج الكامل/النصفي

	Ver 5.x	Ver 6.x
كودك الصوت	ALC888 قنوات لخوج الصوت7.1 تدعم تقنية لصوت علي لتعريف من	ALC861VD قنوات لخوج الصوت5.1 تدعم تقنية لصوت علي لتعريف من
القحت	فتحةPCI عدد 3 فتحة PCI Expressx16 عدد 1 فتحة PCI Expressx1 عدد 2	فتحةPCI عدد 3 فتحة PCI Expressx16 عدد 1 فتحة PCI Expressx1 عدد 2
المنافذ على سطح اللوحة	مقذمحرك أقراص مرنة عدد 1 مقذIDE عدد 2 مقذSATA عدد 2 مقذاللوحة الأملية عدد 1 مقذالصوت الأملي عدد 1 مقذCD-IN عدد 1 مقذخرجS/PDIF عدد 1 وصلةمروحة وحدةالمعلجةالمركزية عدد 1 وصلةمروحة النظم عدد 1 وصلةمسحCMOS عدد 1 مقذUSB عدد 2 مقذ طابعة عدد 1 وصلةفتح الهيكل عدد 1 مقذ توصيل الطقة(24دوس) عدد 1 مقذ توصيل الطقة(4دبليس) عدد 1	مقذمحرك أقراص مرنة عدد 1 مقذIDE عدد 2 مقذSATA عدد 2 مقذاللوحة الأملية عدد 1 مقذالصوت الأملي عدد 1 مقذCD-IN عدد 1 مقذخرجS/PDIF عدد 1 وصلةمروحة وحدةالمعلجةالمركزية عدد 1 وصلةمروحة النظم عدد 1 وصلةمسحCMOS عدد 1 مقذUSB عدد 2 مقذ طابعة عدد 1 وصلةفتح الهيكل عدد 1 مقذ توصيل الطقة(24دوس) عدد 1 مقذ توصيل الطقة(4دبليس) عدد 1
منافذ دخل/خرج اللوحة لخلفية	لوحة مفاتيحPS/2 عدد 1 مؤس PS/2 عدد 1 مقذ تسلسلي عدد 1 مقذ شبكة لتصل محلية عدد 1 مناف USB عدد 4 مقبس صوت عدد 6	لوحة مفاتيحPS/2 عدد 1 مؤس PS/2 عدد 1 مقذ تسلسلي عدد 1 مقذ شبكة لتصل محلية عدد 1 مناف USB عدد 4 مقبس صوت عدد 3
حجم اللوحة	195مم (عرض)X 293مم(ارتفاع)	195مم (عرض)X 293مم(ارتفاع)
مزايا خاصة	RAID 0 / 1تدعم تقنية	RAID 0 / 1تدعم تقنية
دعم أنظمة لتشغيل	Windows 2000 / XP / VISTA بحقها في إضفة أو إزلة الدعم لأي نظام تشغيل بإخطار أوBiostarتحتفظ بدون إخطار.	Windows 2000 / XP / VISTA بحقها في إضفة أو إزلة الدعم لأي نظام تشغيل بإخطار أوBiostarتحتفظ بدون إخطار.

JAPANESE

	Ver 5.x	*Ver 6.x*
CPU	Socket AM2 AMD Sempron / Athlon 64 / Athlon 64 FX / Althlon 64 X2プロセッサ AMD 64アーキテクチャでは、32ビットと64ビット計算が可能です ハイパートランスポートとクールアンドクワイアットをサポートします	Socket AM2 AMD Sempron / Athlon 64 / Athlon 64 FX / Althlon 64 X2プロセッサ AMD 64アーキテクチャでは、32ビットと64ビット計算が可能です ハイパートランスポートとクールアンドクワイアットをサポートします
FSB	1GHzのバンド幅までハイパートランスポートをサポートします	1GHzのバンド幅までハイパートランスポートをサポートします
チップセット	K8T890 VT8237A	K8T890 VT8237A
メインメモリ	DDR2 DIMMスロット x 2 各DIMMは 256/512MB & 1GB DDR2をサポート 最大メモリ容量2GB デュアル チャンネルモードDDR2メモリモジュール DDR2 400 / 533 / 667 / 800をサポート 登録済みDIMMとECC DIMMはサポートされません	DDR2 DIMMスロット x 2 各DIMMは 256/512MB & 1GB DDR2をサポート 最大メモリ容量2GB デュアル チャンネルモードDDR2メモリモジュール DDR2 400 / 533 / 667 / 800をサポート 登録済みDIMMとECC DIMMはサポートされません
Super I/O	ITE IT8726F-S もっとも一般に使用されるレガシーSuper I/O機能を採用しています。 低ピンカウントインターフェイス 環境コントロールイニシアチブ、 H/Wモニター ファン速度コントローラ/ モニター ITEの「スマートガーディアン」機能	ITE IT8726F-S もっとも一般に使用されるレガシーSuper I/O機能を採用しています。 低ピンカウントインターフェイス 環境コントロールイニシアチブ、 H/Wモニター ファン速度コントローラ/ モニター ITEの「スマートガーディアン」機能
IDE	統合IDEコントローラ Ultra DMA 33 / 66 / 100 / 133バスマスタモード PIO Mode 0~4のサポート、	統合IDEコントローラ Ultra DMA 33 / 66 / 100 / 133バスマスタモード PIO Mode 0~4のサポート、
SATA	統合シリアルATAコントローラ 最高11.5 Gb/秒のデータ転送速度 SATAバージョン1.0仕様に準拠。	統合シリアルATAコントローラ 最高11.5 Gb/秒のデータ転送速度 SATAバージョン1.0仕様に準拠。
LAN	Realtek RTL8201CL 10 / 100 Mb/sオートネゴシエーション 半/全二重機能	Realtek RTL8201CL 10 / 100 Mb/sオートネゴシエーション 半/全二重機能

	Ver 5.x		*Ver 6.x*	
サウンド Codec	ALC 888 7.1チャンネルオーディオアウト ハイデフィニションオーディオのサポート		ALC 861VD 5.1チャンネルオーディオアウト ハイデフィニションオーディオのサポート	
スロット	PCIスロット	x3	PCIスロット	x3
	PCI Express x16スロット	x1	PCI Express x16スロット	x1
	PCI Express x1スロット	x2	PCI Express x1スロット	x2
オンボードコネクタ	フロッピーコネクタ	x1	フロッピーコネクタ	x1
	IDEコネクタ	x2	IDEコネクタ	x2
	SATAコネクタ	x2	SATAコネクタ	x2
	フロントパネルコネクタ	x1	フロントパネルコネクタ	x1
	フロントオーディオコネクタ	x1	フロントオーディオコネクタ	x1
	CDインコネクタ	x1	CDインコネクタ	x1
	S/PDIFアウトコネクタ	x1	S/PDIFアウトコネクタ	x1
	CPUファンヘッダ	x1	CPUファンヘッダ	x1
	システムファンヘッダ	x1	システムファンヘッダ	x1
	CMOSクリアヘッダ	x1	CMOSクリアヘッダ	x1
	USBコネクタ	x2	USBコネクタ	x2
	プリンタポートコネクタ	x1	プリンタポートコネクタ	x1
	シャーシオープンヘッダ(オプション)	x1	シャーシオープンヘッダ(オプション)	x1
	電源コネクタ(24ピン)	x1	電源コネクタ(24ピン)	x1
	電源コネクタ(4ピン)	x1	電源コネクタ(4ピン)	x1
背面パネル I/O	PS/2キーボード	x1	PS/2キーボード	x1
	PS/2マウス	x1	PS/2マウス	x1
	シリアルポート	x1	シリアルポート	x1
	LANポート	x1	LANポート	x1
	USBポート	x4	USBポート	x4
	オーディオジャック	x6	オーディオジャック	x3
ボードサイズ	195 mm (幅) X 293 mm (高さ)		195 mm (幅) X 293 mm (高さ)	
特殊機能	RAID 0 / 1 のサポート		RAID 0 / 1 のサポート	
OSサポート	Windows 2000 / XP / VISTA Biostarは事前のサポートなしにOSサポートを追加または削除する権利を留保します。		Windows 2000 / XP / VISTA Biostarは事前のサポートなしにOSサポートを追加または削除する権利を留保します。	

2007/01/12